## IN THE CLAIMS

Amend the claims as indicated below.

Claims 1-19 (canceled).

1	20. (currently amended A GPS receiver, comprising:
2	a first GPS antenna coupled to a digital memory, the digital memory storing first
3	digitized signals obtained through the first GPS antenna;
4	a second GPS antenna coupled to the digital memory, the digital memory storing second
5	digitized signals obtained through the second GPS antenna;
6	a digital processor coupled to the digital memory, the digital processor processing the
7	first digitized signals after being stored in the digital memory to provide first position
8	information and processing the second digitized signals after being stored in the digital memory
9	to provide second position information;
10	a receiver, including data detection circuitry configured to decode data encoded upon a
11	spread spectrum modulated signal received from the GPS-using a matched filter residing within
12	the receiver, the data being demarcated into successive data epochs; and
13	wherein the matched filter decodes periodic phase shift data encoded upon the signal by
14	phase shifts of the data epochs.

## Claims 21-27 (canceled).

1 28. (original) A method of tracking a remote object comprising the steps of: 2 fitting a remote object with a positioning sensor configured to receive and store 3 positioning information when the remote object is in a fix position; 4 positioning the remote object in a fix position such that the positioning sensor is capable 5 of detecting an activation signal; 6 receiving and storing a predetermined amount of data in the positioning sensor, the data 7 comprising position information; 8 processing the data to determine the location of the fix position;

9	decoding data encoded upon a signal using a matched filter, the data being demarcated
10	into successive data epochs; and

decoding periodic phase shift data encoded upon the signal by phase shifts of the data epochs using the matched filter.

## Claim 29 (canceled).

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30. (original) A computer readable medium containing an executable computer program for use in a digital processing system, the executable computer program when executed in the digital processing system causing the digital processing system to perform the steps of: performing a plurality of convolutions on a corresponding plurality of blocks of sampled GPS signals to provide a plurality of corresponding results of each convolution; summing a plurality of mathematical representations of the plurality of corresponding results to obtain a first position information; decoding data encoded upon a signal using a matched filter, the data being demarcated into successive data epochs; and decoding periodic phase shift data encoded upon the signal by phase shifts of the data epochs using the matched filter.

Claims 31-36 (canceled).